

AMENDMENTS TO THE SPECIFICATION:

Please insert the following heading on page 1, before line 5:

FIELD OF THE INVENTION

Please insert the following heading on page 1, before line 9:

Description of the Related Art

Please insert the following heading on page 3, before line 7:

SUMMARY OF THE INVENTION

Please insert the following text on page 3, before line 21:

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the diffraction diagram of the compound of Example 1 ($[\text{Ti}_8\text{O}_{12}(\text{H}_2\text{O})_{24}]\text{Cl}_8 \cdot \text{HCl} \cdot 7\text{H}_2\text{O}$ of the titanium aquo-oxo chloride) superimposed on the theoretical diagram.

Figure 2A shows the thermogravimetric curves (in solid lines) and the differential scanning calorimetry curves (in dotted lines) for the " Ti_8O_{12} " phase recorded in argon at a heating rate of 2 K/min.

Figure 2B shows the thermogravimetric curves (in solid lines) and the differential scanning calorimetry curves (in dotted lines) for the " Ti_8O_{12} " phase recorded in argon at a heating rate of 5 K/min.

Figure 3 provides hydrodynamic diameters of " Ti_8O_{12} " particles in monodisperse solutions measured by proton correlation spectroscopy, as described in Example 3.

Figure 4 illustrates the crystallographic data of a " Ti_8O_{12} " compound.

Figure 5 shows the SEM image of a cross section through a "Ti₈O₁₂" film prepared according to Example 4.

Figure 6 shows the X-ray diffraction diagram of the "Ti₈O₁₂" film prepared according to Example 4.

Figure 7 shows the SEM image of a cross section through the film corresponding to specimen 3 of Example 5.

Figure 8 shows the X-ray diffraction diagrams of the specimens of Example 5.

Figure 9 shows an SEM micrograph and a particle area distribution histogram for Example 6.

Figure 10 shows the SEM image of a film prepared as described in Example 7.

Figure 11 shows the SEM image of a film prepared as described in Example 8.

Figure 12 shows the results of the photocatalytic activity of the film as described in Example 9.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS